UNITED STATES PATENT AND TRADEMARK OFFICE

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EXAMINER
LEE, PHILIP C

ART UNIT	PAPER NUMBER
2453	

NOTIFICATION DATE	DELIVERY MODE
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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PTOL-90A (Rev. 04/07)

	Application No.	Applicant(s)
Office Action Summary	09/684,063	NOMA, TSUNETAKE
	Examiner	Art Unit
	PHILIP LEE	2453

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on _09 June 2011_.
2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.
3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) _1,2,4,5,12,13 and 19_ is/are pending in the application.
      4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5)☐ Claim(s) _____ is/are allowed.
6)☒ Claim(s) _1,2,4,5,12,13 and 19_ is/are rejected.
7)☐ Claim(s) _____ is/are objected to.
8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.
10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.
      Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
      Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
      a)☒ All   b)☐ Some * c)☐ None of:
      1.☒ Certified copies of the priority documents have been received.
      2.☐ Certified copies of the priority documents have been received in Application No. _____.
      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
      * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)
2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3)☐ Information Disclosure Statement(s) (PTO/SB/08)
      Paper No(s)/Mail Date _____.
4)☐ Interview Summary (PTO-413)
      Paper No(s)/Mail Date. _____.
5)☐ Notice of Informal Patent Application
6)☐ Other: _____.

DETAILED ACTION

1.   This action is responsive to the amendment and remarks filed on June 9, 2011.

2.   A request for continued examination under 37 CFR 1.114, including the fee set forth in

37 CFR 1.17(e), was filed in this application after final rejection. Since this application is

eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e)

has been timely paid, the finality of the previous Office action has been withdrawn pursuant to

37 CFR 1.114. Applicant's submission filed on 6/9/11 has been entered.

3.   Claims 1-2, 4-5, 12-13 and 19 are presented for examination.

Claim Rejections – 35 USC 103

4.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in
> section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are
> such that the subject matter as a whole would have been obvious at the time the invention was made to a person
> having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the
> manner in which the invention was made.

5.   Claims 1, 4-5, 12 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Simonoff, U.S. Patent 7,043,529 (hereinafter Simonoff) in view of Morris et al, U.S. Patent

Application Publication 2002/0052919 (hereinafter Morris).

6.   As per claim 1, Simonoff teaches the invention substantially as claimed for providing a

service (100, fig. 3) to a plurality of information processing apparatuses (300, fig. 3) via a

network (400, fig. 3), said service providing apparatus (100,fig. 3) comprising:

storing means for storing a plurality of chat rooms (server 100 storing web pages

containing the white boards) (col. 21, lines 19-26), a list of available content (e.g., list of

files/objects), and content (files/object) (col. 14, lines 30-32; col. 24, lines 7-8; col. 34, lines 49-

51);

receiving means:

for receiving content requests transmitted from one of the plurality of information

processing apparatuses currently participating in said one of the plurality of chat rooms,

the content request including a selection from the list of available content (col. 14, lines

15-32; col. 22, lines 53-56) (server receive command to relay/upload the content (e.g.,

drawn object, files) from the client), and

for receiving text messages transmitted from any of the plurality of information

processing apparatuses currently participating in said one of the plurality of chat rooms

(col. 23, lines 60-63; col. 24, line 65-col. 25, line 2) (server receive chat messages form

clients);

acquiring means for acquiring the content requested by the content requests from the one

of the plurality of information processing apparatuses (col. 14, lines 30-32; col. 17, line

67-col. 18, line 28; col. 23, line 60-col. 24, line 8) (obtaining the upload file (e.g., drawn object) selected by the Open File request from a white board client);

transmitting means for transmitting to all of the plurality of information processing apparatuses currently participating in said one of the plurality of chat rooms (col. 24, lines 22-27; col. 31, lines 35-37) (server sends to the clients participating in the white board):

the list of available content stored in said storing means (col. 14, lines 1-32);

the content acquired by said acquiring means, wherein the content acquired by the acquiring means is transmitted to all of the other plurality of information processing apparatuses without receiving a request for the content from any of the other plurality of information processing apparatuses (col. 17, line 67-col. 18, line 28; col. 20, lines 42-49; col. 24, lines 18-27; col. 24, line 65-col. 25, line 2) ((when a white board client selects a Open File request, the server relays/displays the drawn object/file to users in the white board without receiving another Open File request for the content from any of the other white board clients);

a list of all of the information processing apparatuses currently accessing the service providing apparatus (col. 19, line 64-col. 20, line 1; col. 23, lines 49-56) (list of user accessing the server);

said text messages received by said receiving means (col. 23, lines 60-64; col. 24, line 65-col. 25, line 2) (chat messages relayed to the users); and

instructions to each of the plurality of information processing apparatuses currently accessing the service providing apparatus and participating in said one of the plurality of chat rooms (currently accessing application and chat room (i.e., whiteboard))

(col. 23, lines 26-32, 49-56) instructions commanding said one of the plurality of

information processing apparatuses to simultaneously display in one window (fig. 12B,

display in a collaborator window) on a display configured to display a plurality of

windows (computer screen configured to display graphical windows), the list of

available content (list of whiteboard files available on the server in order to be displayed

on all of the whiteboard users), the name of the content being shared by all of

information processing apparatuses currently receiving transmissions from the

transmitting means (e.g., map_Iraq.jpg), and identification information corresponding to

all of the information processing apparatuses currently accessing the service providing

apparatus (col. 19, line 64-col. 20, line 1; col. 23, lines 49-56) (list of user accessing the

server).

7.   Simonoff does not specifically teach receiving participation requests. Morris teaches for

receiving participation requests transmitted from any of the plurality of information processing

apparatuses to include a corresponding one of the plurality of information processing apparatuses

in one of said plurality of chat rooms ([0006] and [0008]) (server 100 receives input of user

clicking on SETUP button); and a list of all of the information processing apparatuses currently

accessing the service providing apparatus and participating in said one of the plurality of chat

rooms (figs. 1 and 2; [0007]).

8.   It would have been obvious to one having ordinary skill in the art at the time of the

invention was made to combine the teachings of Simonoff and Morris because Morris's teaching

of participation requests would allow users in Simonoff's system to invite other users to

participants in a chat room without fear that uninvited user will be able to see their comments

([0008]).

9.   As per claim 4, Simonoff teaches the invention substantially as claimed for providing a

service (100, fig. 3) to a plurality of information processing apparatuses (300, fig. 3) via a

network (400, fig. 3), said service providing method comprising:

a storage step of storing a plurality of chat rooms (server 100 storing web pages containing the

white boards) (col. 21, lines 19-26), a list of available content (e.g., list of files/objects), and

content in a service providing apparatus (files/drawn object) (col. 14, lines 30-32; col. 24, lines

7-8; col. 34, lines 49-51);

a second reception step of receiving in the service providing apparatus a content request

transmitted from one of the information processing apparatuses belonging to said one of the of

the plurality of chat rooms, the content request including a selection from the list of available

content (col. 22, lines 53-56) (server receive command to relay/display the content (e.g., drawn

object/files) from the client);

a third reception step of receiving text messages transmitted from any of the information

processing apparatuses currently participating in said one of the plurality of chat rooms (col. 23,

lines 60-63; col. 24, line 65-col. 25, line 2) (server receive chat messages form clients);

an acquisition step of acquiring in the service providing apparatus the content requested by the

content request from the one of the information processing apparatuses (col. 14, lines 30-32; col.

17, line 67-col. 18, line 28; col. 23, line 60-col. 24, line 8) (obtaining the upload file (e.g., object)

selected by the Open File request from a white board client);

a first communication step of transmitting from the service providing apparatus to all of the

information processing apparatus currently accessing the service providing apparatus and

participating in said one of the plurality of chat rooms the list of available content (col. 14, lines

1-32);

a second communication step of transmitting from the service providing apparatus the content

acquired by the acquisition step to all of the other information processing apparatuses currently

accessing the service providing apparatus and participating in said one of the plurality of chat

rooms without receiving a request for the content from any of the other plurality of information

processing apparatuses (col. 17, line 67-col. 18, line 28; col. 20, lines 42-49; col. 24, lines 18-27;

col. 24, line 65-col. 25, line 2; col. 31, lines 35-37) ((when a white board client selects a Open

File request, the server relays/displays the drawn object/file to users in the white board without

receiving another Open File request for the content from any of the other white board clients);

and

a transmission step of transmitting to each of the information processing apparatuses in said one

of the plurality of chat rooms:

a list of all of the information processing apparatuses currently accessing the service

providing apparatus (col. 19, line 64-col. 20, line 1; col. 23, lines 49-56) (list of user accessing

the server),

the text messages (col. 23, lines 60-64; col. 24, line 65-col. 25, line 2) (chat messages

relayed to the users); and

instructions to each of the information processing apparatuses currently accessing the

service providing apparatus and participating in said one of the plurality of chat rooms (currently

accessing application and chat room (i.e., whiteboard)) (col. 23, lines 26-32, 49-56) instructions

commanding said one of the plurality of information processing apparatuses to simultaneously

display in one window (fig. 12B, display in a collaborator window) on a display configured to

display a plurality of windows (computer screen configured to display graphical windows), the

list of available content (list of whiteboard files available on the server in order to be displayed

on all of the whiteboard users), the name of the content being shared by all of information

processing apparatuses currently receiving transmissions from the service providing

apparatus(e.g., map_Iraq.jpg), and identification information corresponding to all of the

information processing apparatuses currently accessing the service providing apparatus (col. 19,

line 64-col. 20, line 1; col. 23, lines 49-56) (list of user accessing the server).

10.   Simonoff does not specifically teach receiving participation requests. Morris teaches

receiving in the service providing apparatus a participation request to include one of the plurality

of information processing apparatuses in one of said plurality of chat rooms ([0006] and [0008])

(server 100 receives input of user clicking on SETUP button); and a list of all of the information

processing apparatuses currently accessing the service providing apparatus and participating in

said one of the plurality of chat rooms (figs. 1 and 2; [0007]).

11.   It would have been obvious to one having ordinary skill in the art at the time of the

invention was made to combine the teachings of Simonoff and Morris because Morris's teaching

of participation requests would allow users in Simonoff's system to invite other users to

participants in a chat room without fear that uninvited user will be able to see their comments

([0008]).

12.   As per claim 5, Simonoff teaches the invention substantially as claimed for providing a

service (100, fig. 3) to a plurality of information processing apparatuses (300, fig. 3) via a

network (400, fig. 3), comprising:

a storage step of storing in the shared server a plurality of chat rooms (server 100 storing web

pages containing the white boards) (col. 21, lines 19-26), a list of available content (e.g., list of

files/objects), and content (files/objects) (col. 14, lines 30-32; col. 24, lines 7-8; col. 34, lines 49-

51);

a second reception step of receiving a content request transmitted from one of the information

processing apparatuses currently participating in said one of the of the plurality of chat rooms,

the content request including a selection from the list of available content (col. 22, lines 53-56)

(server receive command to relay/display the content (e.g., object/file) from the client);

a third reception step of receiving text messages transmitted from any of the information

processing apparatuses currently participating in said one of the plurality of chat rooms (col. 23,

lines 60-63; col. 24, line 65-col. 25, line 2) (server receive chat messages form clients);

an acquisition step of acquiring the content requested by the content request (col. 14, lines 30-32;

col. 17, line 67-col. 18, line 28; col. 23, line 60-col. 24, line 8) (obtaining the upload file/object

selected by a Open File request from a white board client);

a first communication step of transmitting from the shared server to all of the information

processing apparatuses currently accessing the shared server and participating in said one of the

plurality of chat rooms the list of available content (col. 14, lines 1-32);

a second communication step of transmitting the content acquired by the acquisition step to all of

the other information processing apparatuses currently accessing the shared server and

participating in said one of the plurality of chat rooms without receiving a request for the content

from any of the other plurality of information processing apparatuses(col. 17, line 67-col. 18, line

28; col. 20, lines 42-49; col. 24, lines 18-27; col. 24, line 65-col. 25, line 2; col. 31, lines 35-37)

((when a white board client selects a Open File request, the server relays/displays the drawn

object/file to users in the white board without receiving another Open File request for the content

from any of the other white board clients); and

a transmission step of transmitting to each of the plurality of information processing apparatuses

currently accessing the shared server and participating in said one of the plurality of chat rooms:

      a list of all of the information processing apparatuses currently accessing the shared

server (col. 19, line 64-col. 20, line 1; col. 23, lines 49-56) (list of user accessing the server),

      the text messages (col. 23, lines 60-64; col. 24, line 65-col. 25, line 2) (chat messages

relayed to the users), and

      instructions commanding each of the information processing apparatuses currently

accessing the shared server and participating in said one of the plurality of chat rooms (currently

accessing application and chat room (i.e., whiteboard)) (col. 23, lines 26-32, 49-56) to

simultaneously display in one window (fig. 12B) on a display configured to display a plurality of

windows (computer screen configured to display graphical windows), the list of available

content (list of whiteboard files available on the server in order to be displayed on all of the

whiteboard users), the name of the content being shared by all of information processing

apparatuses currently receiving transmissions from the shared server (e.g., map_Iraq.jpg), and

identification information corresponding to all of the information processing apparatuses

currently accessing the service providing apparatus (col. 19, line 64-col. 20, line 1; col. 23, lines

49-56) (list of user accessing the server).

13.   Simonoff does not specifically teach receiving participation requests. Morris teaches

receiving in a shared server a participation request transmitted from any of the plurality of

information processing apparatuses to include one of the plurality of information processing

apparatuses in one of said plurality of chat rooms ([0006] and [0008]) (server 100 receives input

of user clicking on SETUP button); and a list of all of the information processing apparatuses

currently accessing the shared server and participating in said one of the plurality of chat rooms

(figs. 1 and 2; [0007]).

14.   It would have been obvious to one having ordinary skill in the art at the time of the

invention was made to combine the teachings of Simonoff and Morris because Morris's teaching

of participation requests would allow users in Simonoff's system to invite other users to

participants in a chat room without fear that uninvited user will be able to see their comments

([0008]).

15.   As per claim 12, Simonoff teaches the invention substantially as claimed for providing a

service (100, fig. 3) to a plurality of information processing apparatuses (300, fig. 3), the service

providing apparatus functioning as a shared server on a network (400, fig. 3), said service

providing apparatus (100,fig. 3) comprising:

    a memory configured to store a plurality of chat rooms (server 100 storing web pages

containing the white boards) (col. 21, lines 19-26), a list of available content (e.g., list of

files/objects), and content (files/object) (col. 14, lines 30-32; col. 24, lines 7-8; col. 34, lines 49-

51);

        a network interface:

            configured to receive content requests transmitted from one of the information

processing apparatuses currently participating in said one of said plurality of chat rooms, the

content requests including a selection from the list of available content (col. 14, lines 1-32; col.

17, line 67-col. 18, line 28; col. 22, lines 53-56) (server receive command to relay/display the

content (file/object) from the client); and

            configured to receive text messages transmitted from any of the information

        processing apparatuses currently accessing the shared server and participating in said one

        of the plurality of chat rooms (col. 23, lines 60-63; col. 24, line 65-col. 25, line 2) (server

        receive chat messages form clients);

        the network interface configured to acquire the content requested by the content requests

received from the one of the information processing apparatuses (col. 14, lines 30-32; col. 17,

line 67-col. 18, line 28; col. 23, line 60-col. 24, line 8) (obtaining the upload file/object);

the network interface configured to transmit the acquired content to all of the other

plurality of information processing apparatuses without receiving a request for the content from

any of the other plurality of information processing apparatuses (when a white board client

selects a Open File request, the server relays/displays the drawn object/file to users in the white

board without receiving another Open File request for the content from any of the other white

board clients) and the text messages to all of the information processing apparatuses currently

accessing the shared server and participating in said one of the plurality of chat rooms (col. 14,

lines 1-32; col. 17, line 67-col. 18, line 28; col. 20, lines 42-49; col. 23, lines 60-64; col. 24, lines

18-27; col. 24, line 65-col. 25, line 2; col. 31, lines 35-37) (relay/display objects/files and chat

messages to users at the same time); and

the network interface configured to transmit to each of the information processing

apparatuses currently accessing the shared server and participating in said one of the plurality of

chat rooms:

the list of available content (col. 14, lines 1-32; col. 22, lines 53-56);

a list of all of the information processing apparatuses currently accessing the

shared server (col. 19, line 64-col. 20, line 1; col. 23, lines 49-56) (list of user accessing the

server); and

the received text messages (col. 23, lines 60-64; col. 24, line 65-col. 25, line 2)

(chat messages relayed to the users); and

instructions commanding each of the information processing apparatuses

currently accessing the shared server and participating in said one of the plurality of chat rooms

(currently accessing application and chat room (i.e., whiteboard)) (col. 23, lines 26-32, 49-56) to

simultaneously display in one window (fig. 12B) on a display configured to display a plurality of

windows (computer screen configured to display graphical windows), the list of available

content (list of whiteboard files available on the server in order to be displayed on all of the

whiteboard users), the name of the content being shared by all of information processing

apparatuses currently receiving transmission from the shared server (e.g., map_Iraq.jpg), and

identification information corresponding to all of the information processing apparatuses

currently accessing the shared server (col. 19, line 64-col. 20, line 1; col. 23, lines 49-56) (list of

user accessing the server).

16.   Simonoff does not specifically teach receiving participation requests. Morris teaches

receiving participation requests to include a corresponding one of a plurality of information

processing apparatuses in one of the plurality of chat rooms, the participation requests

transmitted from any of a plurality of information processing apparatuses ([0006] and [0008])

(server 100 receives input of user clicking on SETUP button), and a list of all of the information

processing apparatuses currently accessing the shared server and participating in said one of the

of chat rooms (figs. 1 and 2; [0007]).

17.   It would have been obvious to one having ordinary skill in the art at the time of the

invention was made to combine the teachings of Simonoff and Morris because Morris's teaching

of participation requests would allow users in Simonoff's system to invite other users to

participants in a chat room without fear that uninvited user will be able to see their comments

([0008]).

18.   As per claim 19, Simonoff and Morris teach the invention substantially as claimed in

claim 1 above. Simonoff further teach wherein the instructions to each of the plurality of

information processing apparatuses command said one of the plurality of information processing

apparatuses to display the list of available content in a first display area Of the one window,

display the name of the content being shared by all of information processing apparatuses

currently receiving transmissions from the transmitting means in a second display area of the one

window, and display the identification information corresponding to all of the information

processing apparatuses currently participating in said one of the plurality of chat rooms in a third

area of the one window (fig. 12B)

19.   Claims 2 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Simonoff

and Morris in view of Johnson et al, U.S. Patent 7,143,177 (hereinafter Johnson).

20.   As per claims 2 and 13, Simonoff and Morris teach the invention substantially as claimed

as claims 1 and 12 above. Simonoff and Morris do not specifically teach the content is music.

Johnson teaches wherein:

        the content requested by the content requests is music (col. 5, lines 32-41; col. 29, lines

58-61; col. 30, lines 20-26) and

        the selection is particular music data (col. 20, lines 50-53; col. 21, lines 24-36).

21.   It would have been obvious to one having ordinary skill in the art at the time of the

invention was made to combine the teachings of Simonoff, Morris and Johnson because

Johnson's teaching of the content selected is music would allow users in Simonoff's and

Morris's systems to share multimedia such as music with other users.

22.   Applicant's arguments with respect to claims 1-2, 4-5, 12-13 and 19, filed on 6/9/11 have

been considered but are not persuasive.

23.   In the remark, applicant argued that:

                (1)   Simonoff fails to teach simultaneously display in one window the

                list of available content, the name of the content being shared by all of

                information processing apparatuses currently receiving transmission from

                the shared server, and identification information corresponding to all of

                the information processing apparatuses currently accessing the shared

                server.

                (2)   The prior arts of record fail to teach the limitation of the new

                dependent claim 19

24.   In response to points (1) and (2), Simonoff teaches simultaneously display in one window

(fig. 12B) the list of available content (list of whiteboard files available on the server in order to

be displayed on all of the whiteboard users), the name of the content being shared by all of

information processing apparatuses currently receiving transmission from the shared server (e.g.,

map_Iraq.jpg), and identification information corresponding to all of the information processing apparatuses currently accessing the shared server (col. 19, line 64-col. 20, line 1; col. 23, lines 49-56) (list of user accessing the server). Simonoff does not specifically teach receiving participation requests. Morris teaches a list of all of the information processing apparatuses currently accessing the shared server and participating in said one of the of chat rooms (figs. 1 and 2; [0007]). Although the window for displaying the list of available content might be considered as a separate display window, however, the display window of the list of available content is simultaneously displayed with the name of the content being shared… and identification information… in the one collaborator window on a display configured to display a plurality of windows (i.e., on a computer screen configured to display a plurality of graphical windows) (Fig. 12B). In addition, figure 9 and the specification merely disclose a main window 81 and a plurality of display area 82, 84 and 85 as a graphical box display area surrounded by four borders. The specification does not disclose any difference between the main window 81 and the display area 82, 84 and 85. Similarly, Simonoff teaches a display window of the collaborator window for the list of available content (i.e., first display area of the one window), a second display window of the collaborator window for the name of the content being shared by all participants (i.e., second display area of the one window), and a third display window of the collaborator window for the list of users accessing the server (i.e., third display area of the one window).

25.   A shortened statutory period for reply to this Office action is set to expire THREE MONTHS from the mailing date of this action. Any inquiry concerning this communication or

earlier communications from the examiner should be directed to Philip C Lee whose telephone

number is (571)272-3967. The examiner can normally be reached on 8 AM TO 5:30 PM

Monday to Thursday and every other Friday. If attempts to reach the examiner by telephone are

unsuccessful, the examiner's supervisor, Krista Zele can be reached on (571) 272-7288. The fax

phone number for the organization where this application or proceeding is assigned is 571-273-

8300. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Philip C Lee/

Primary Examiner, Art Unit 2453